	Application No.	Applicant(s)
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Notice of Allowability	10/642,803	YAMAZAKI ET AL.
	Examiner	Art Unit
	Andrew Schechter	2871
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to the filing of 19 April 2005.		
2.  The allowed claim(s) is/are <u>1,20-26 and 33-42</u> .		
3.  The drawings filed on 18 August 2003 are accepted by the Examiner.		
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have been received.</li> </ul>		
2. ⊠ Certified copies of the priority documents have been received in Application No. <u>09/573,314</u> .		
Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
<ul> <li>6. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.</li> <li>(a) including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached</li> <li>1) hereto or 2) to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).</li> </ul>		
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)  1. Notice of References Cited (PTO-892)	E Maria do 1	and Data at Anally 11 (DEC 1997)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	5. ☐ Notice of Infor 6. ☐ Interview Sum	mal Patent Application (PTO-152)
	Paper No./Ma	nil Date
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	8), 7. 🛛 Examiner's An	nendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit		atement of Reasons for Allowance
of Biological Material	9.  Other	}

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**DETAILED ACTION** 

**EXAMINER'S AMENDMENT** 

1. An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

The application has been amended as follows:

In the Title:

The title has been replaced with "Semiconductor device with capacitor formed

around contact hole".

End of examiner's amendment.

Allowable Subject Matter

2. Claims 1, 20-26, and 33-42 are allowed.

3. The following is an examiner's statement of reasons for allowance:

The prior art does not disclose the device of claim 1, in particular the limitations

that there is a capacitor formed around the contact hole in the insulating layer and the

an electric field parallel to the face of the substrates is applied between the pixel and

common electrodes. For instance, Katayama, U.S. Patent No. 6,100,947, discloses a

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capacitor around a contact hole, but not in an parallel field device. Claim 1 is therefore allowed, as are its dependent claims 20-22.

Similarly, the prior art does not disclose the device of claims 23 and 33, having analogous limitations to those discussed above. Claims 23 and 33 are therefore allowed, as are their dependent claims 24-26 and 34-37. Similarly, the prior art does not disclose the device of claim 38, in particular the limitations that the capacitor is formed around the contact hole in the first insulating layer, and it is an IPS display device (which is a parallel electric field device). Claim 38 is therefore allowed, as are its dependent claims 39-42.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew Schechter whose telephone number is (571) 272-2302. The examiner can normally be reached on Monday - Friday, 9:00 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on (571) 272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Andrew Schechter
Patent Examiner
Technology Center 2800
22 April 2005

RUBERT H. KIM SUPERVISORY PATENT EXAMINER TECHNOLOGICAL CENTER 2800